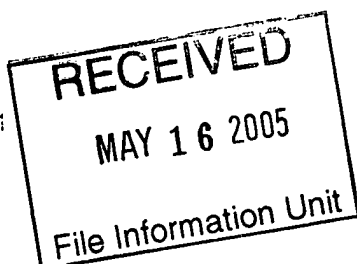


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US006573402B1

(12) **United States Patent**  
Gwag et al.

(10) Patent No.: **US 6,573,402 B1**  
(45) Date of Patent: **Jun. 3, 2003**

(54) **COMPOUNDS, COMPOSITIONS AND METHODS FOR PREVENTING NEURODEGENERATION IN ACUTE AND CHRONIC INJURIES IN THE CENTRAL NERVOUS SYSTEM**

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(73) Assignee: **Neurotech Co., Ltd.**, Kyungki-do (KR)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **10/206,772**

(22) Filed: **Jul. 29, 2002**

#### Related U.S. Application Data

(63) Continuation of application No. 09/557,001, filed on Apr. 20, 2000, now abandoned.

(51) Int. Cl.<sup>7</sup> ..... **C07C 205/00**

(52) U.S. Cl. .... **562/435**

(58) Field of Search ..... **562/435**

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(57) **ABSTRACT**

The present invention provides compositions and methods for prevention and prophylaxis of neurological diseases accompanied by neuronal death. The invention includes synthesis of 5-benzylamino salicylic acid (BAS) and its derivatives. BAS and its derivatives protect cortical neurons from toxic insults by N-methyl-D-aspartate,  $Zn^{2+}$ , and reactive oxygen species. Thus, the present invention provides compositions and methods for treating stroke, traumatic brain and spinal cord injury, epilepsy, and neurodegenerative diseases that are accompanied by severe neuronal loss via excitotoxicity,  $Zn^{2+}$  neurotoxicity, and free radical neurotoxicity.

1 Claim, 38 Drawing Sheets

